TD8290 "SEP2880

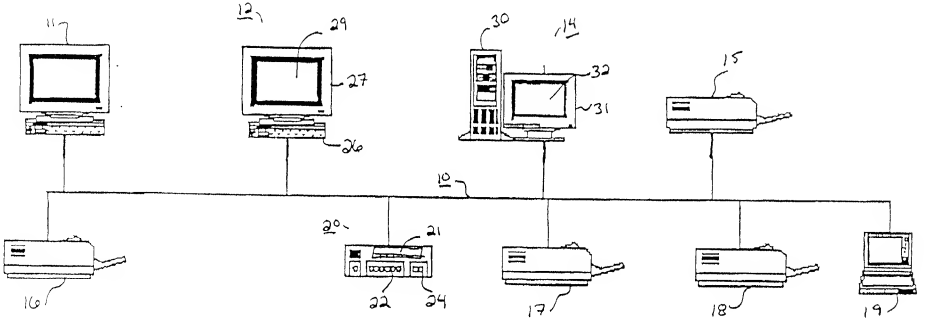

FIG. 1

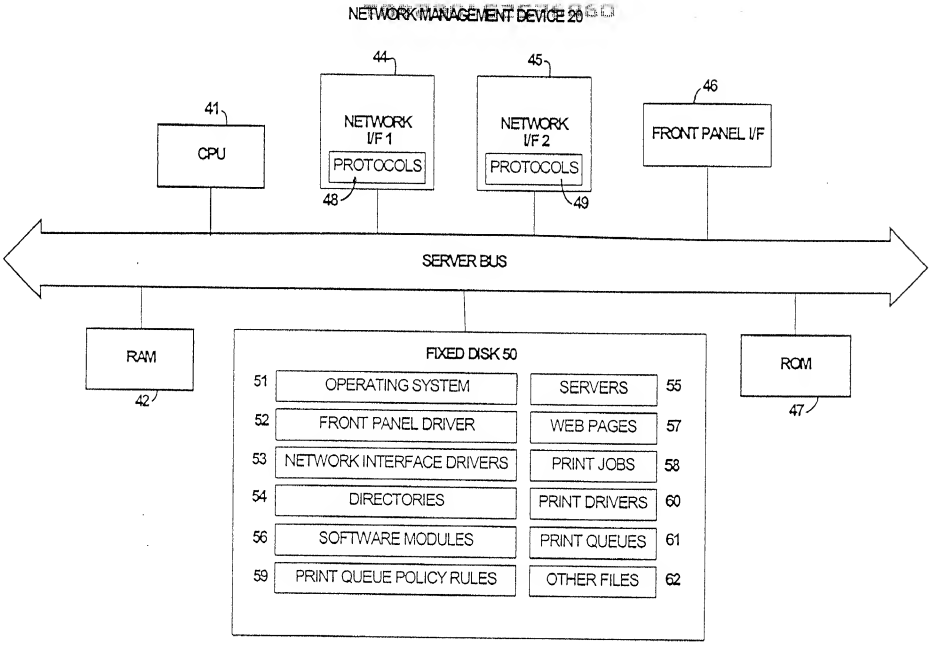
NETWORK MANAGEMENT DEVICE 20
41
CPU
44
NETWORK I/F 1
PROTOCOLS
48
45
NETWORK I/F 2
PROTOCOLS
49
46
FRONT PANEL I/F
SERVER BUS
RAM
42
FIXED DISK 50
51 OPERATING SYSTEM
52 FRONT PANEL DRIVER
53 NETWORK INTERFACE DRIVERS
54 DIRECTORIES
56 SOFTWARE MODULES
59 PRINT QUEUE POLICY RULES
SERVERS 55
WEB PAGES 57
PRINT JOBS 58
PRINT DRIVERS 60
PRINT QUEUES 61
OTHER FILES 62
ROM
47

FIG. 2

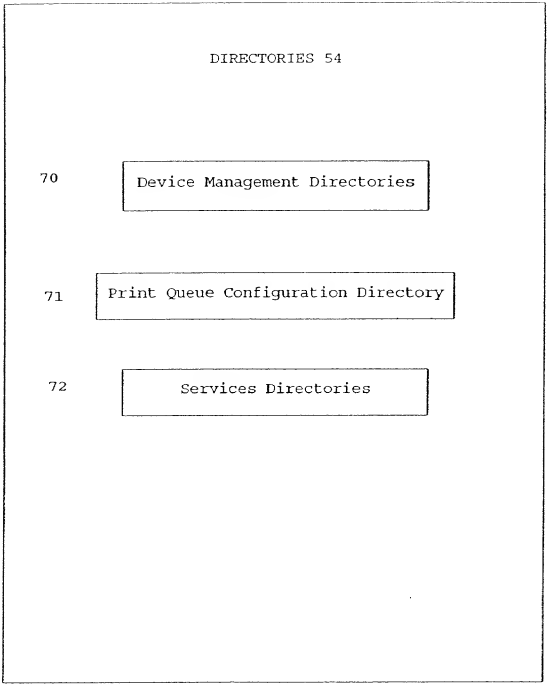
DIRECTORIES 54
70
Device Management Directories
71
Print Queue Configuration Directory
72
Services Directories

FIG. 3

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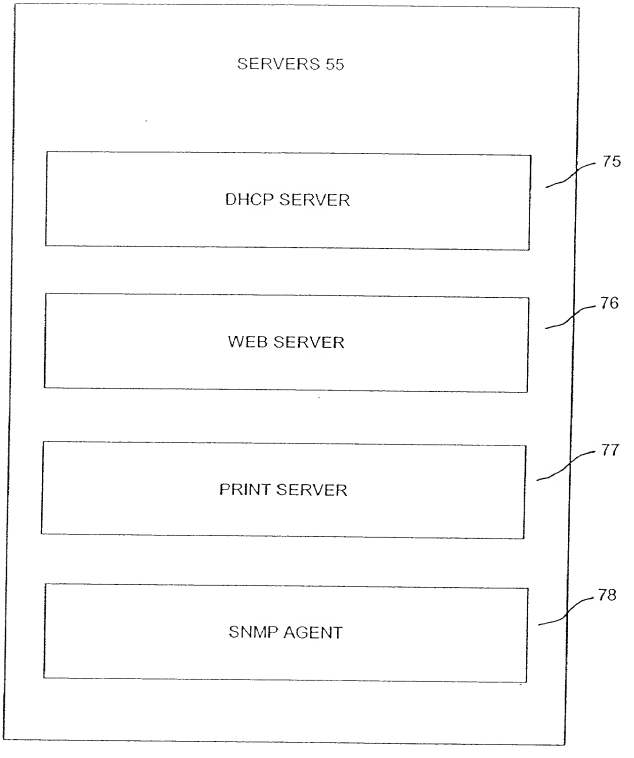

FIG. 4

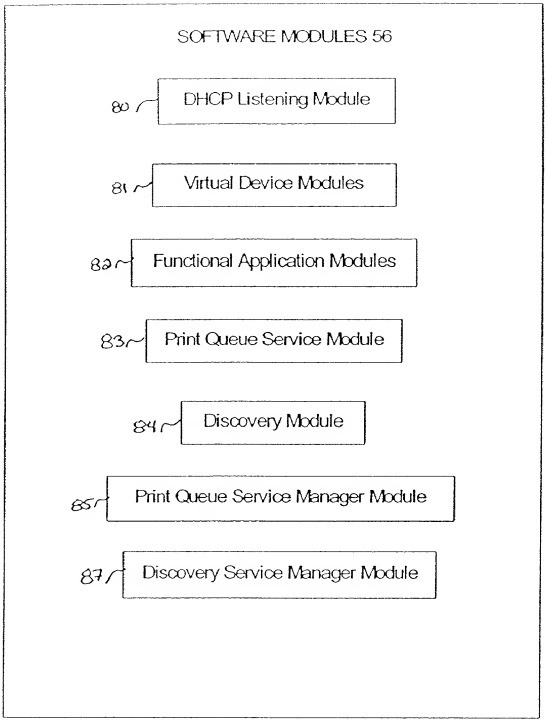
SOFTWARE MODULES 56
80
DHCP Listening Module
81
Virtual Device Modules
82
Functional Application Modules
83
Print Queue Service Module
84
Discovery Module
85
Print Queue Service Manager Module
87
Discovery Service Manager Module

Fig. 5

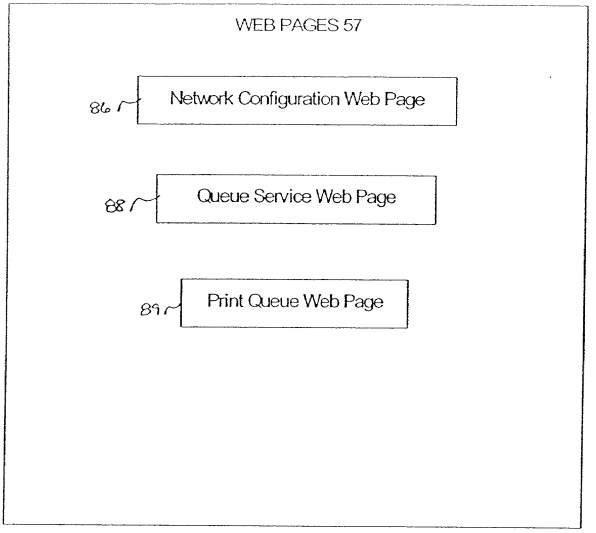

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Fig. 6

T08290 "525266"

DEVICE MANAGEMENT DIRECTORY 70

ENTRY 90	MAC ADDRESS 91	PRINT DEVICE TYPE 92	IP ADDRESS 93	NETWORK CONFIGURATION INFORMATION 94
Entry 1	00:00:85:69:0A:B3	Canon Laser	129.65.220.8	Domain Name, etc.
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
Entry N	-	--	--	--

Fig. 7

TO9230 S2526850

PRINT QUEUE CONFIGURATION DIRECTORY 71

	IP ADDRESS 100	MAC ADDRESS 101	PRINT QUEUE NAME 102	PRINTING CAPABILITIES 103	SERVER 105
ENTRY 1	129.65.220.8	00:00:85:69:0A:B3	Canon Laser	Color, Letter, A4	Main A
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
ENTRY N	-	--	-	--	--

Fig. 8

T08290 "S2526860

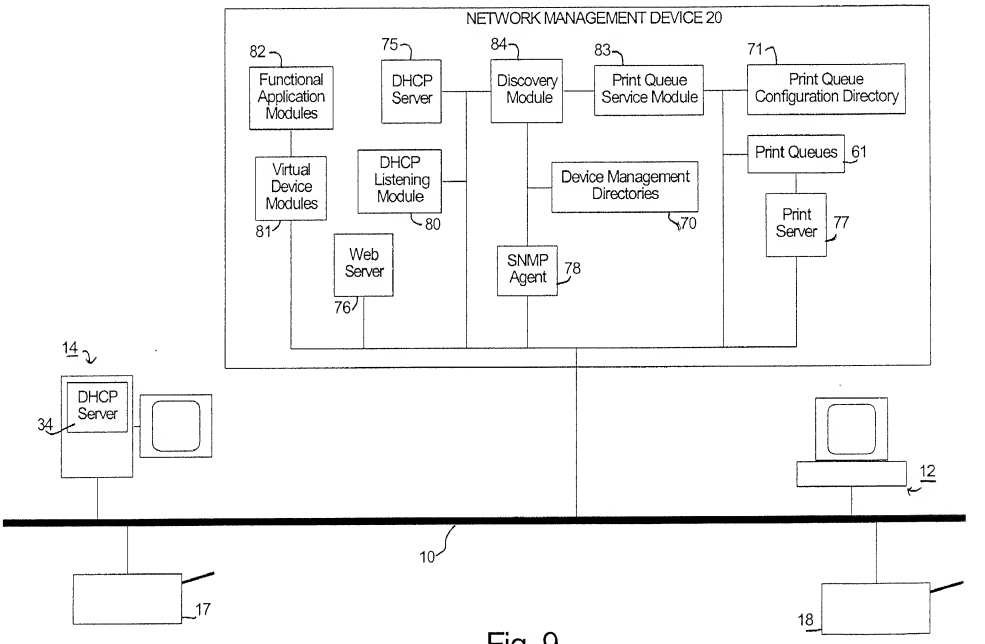

Fig. 9

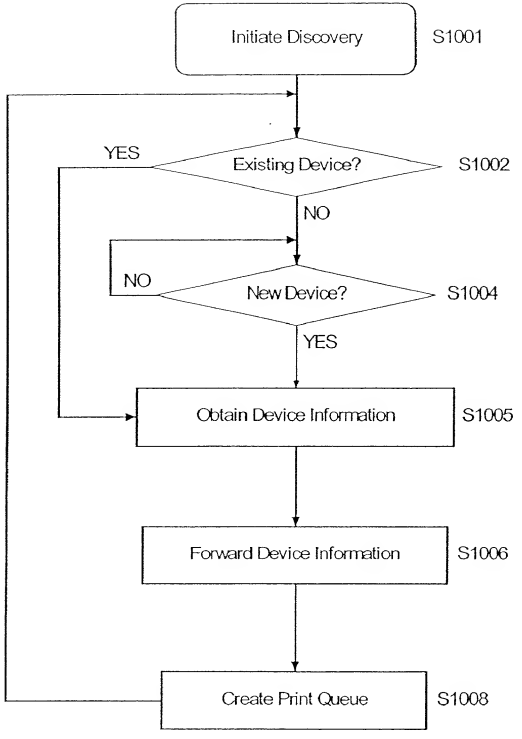
Initiate Discovery
S1001
YES
Existing Device?
S1002
NO
NO
New Device?
S1004
YES
Obtain Device Information
S1005
Forward Device Information
S1006
Create Print Queue
S1008

Fig. 10

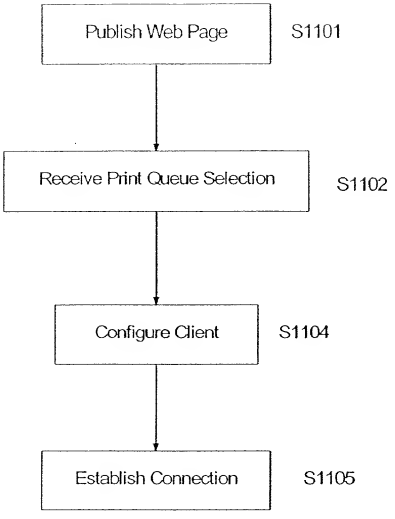

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Fig. 11

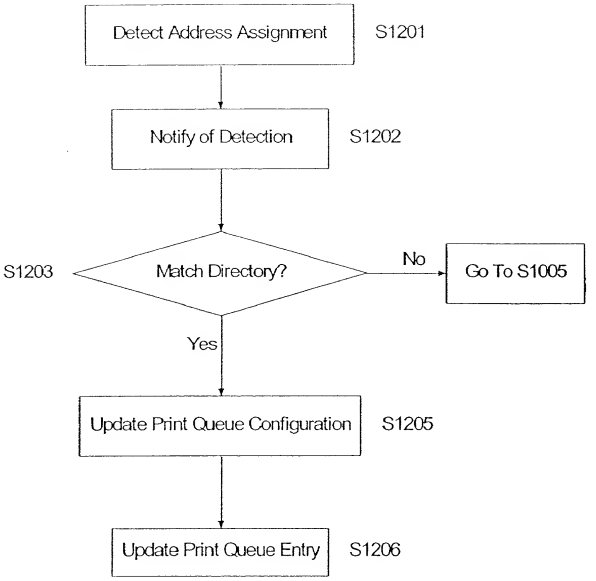
Detect Address Assignment
S1201
Notify of Detection
S1202
S1203
Match Directory?
No
Go To S1005
Yes
Update Print Queue Configuration
S1205
Update Print Queue Entry
S1206

Fig. 12

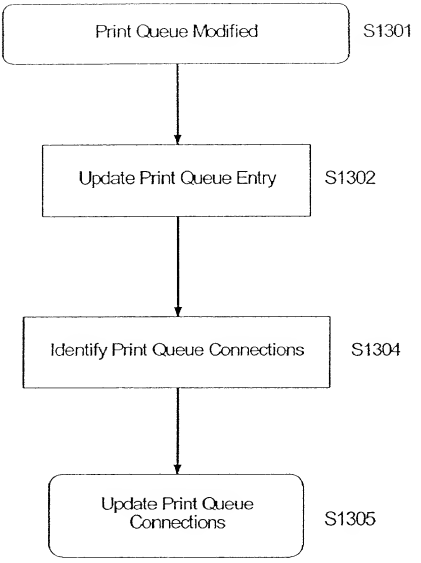
Print Queue Modified
S1301
Update Print Queue Entry
S1302
Identify Print Queue Connections
S1304
Update Print Queue Connections
S1305

Fig. 13

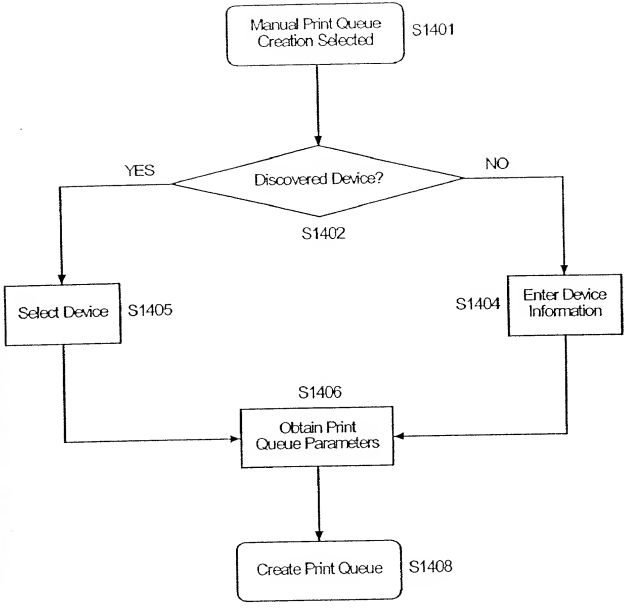

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Fig. 14